



PROJECT: Chicagoland Underflow Project - Thornton Reservoir

AUTHORIZATION: WRDA 1988, Modified by WRDA 1999

TYPE: Construction General - Flood Damage Reduction

PROJECT DESCRIPTION: The Chicagoland Underflow Project (CUP) Thornton reservoir will be constructed in former Material Services Inc. owned quarry in Thornton, IL. The reservoir would provide an outlet for the existing Calumet "Deep Tunnel" System and capture, store and treat combined sewer overflows which otherwise would be discharged untreated into the Calumet-Sag Channel, the Little Calumet River and the Grand Calumet Rivers. WRDA 99 authorized the Corps to evaluate including the authorized Natural Resources Conservation Service Thorn Creek Reservoir as part of the Corps project. As a result the Corps of Engineers originally planned 14,600 acre-feet reservoir would be increased 9,600 acre-feet to a total volume of 24,200 acre-feet. Major components include inlet and hydraulic structures, tunnels, gates, valves, a rock dam, aquifer protection, an aeration system and a washdown system.

CURRENT STATUS: The Corps is preparing a Limited Reevaluation Report (LRR) to evaluate including the NRCS portion as part of the Corps project in accordance with WRDA 99. Work is continuing on the Project Cooperation Agreement. Sponsor has an agreement with a local corporation for mining the north lobe to expand the reservoir to accommodate the Thorn Creek portion. As a result of MWRDGC and Material Service Corporation's recent mining agreement, the completion date of 2014 was established for the Composite Thornton Reservoir.

FY01WORK:

- Federal work allowance is \$2.35 million; no local cash contribution is made until a PCA is signed
- Complete Limited Reevaluation Report
- Continue work on Project Cooperation Agreement
- Construct remaining 3 needed groundwater monitoring wells to measure existing water quality levels.
- Initiate feature design documentation reports for project features requiring more detailed design.

FY02WORK:

- Complete Project Cooperation Agreement
- Continue work on feature design documentation reports and plans and specifications

PROJECT COSTS:

	Total	Federal	Non-Federal
• CUP Thornton Reservoir	\$142,300,000	\$107,000,000	\$35,800,000
• Thorn Creek Portion	72,100,000	54,100,000	18,000,000
• CUP Thornton + Thorn Creek	\$215,400,000	\$161,600,000	\$53,800,000

PROJECT COMPLETION: September 2014

LOCAL SPONSOR: Metropolitan Water Reclamation District of Greater Chicago (MWRDGC)

ISSUES/CONCERNS:

AE contractor completed installation of 7 groundwater monitoring wells. Work on LRR is in progress, but a critical component, the evaluation of stability of the I80/294 corridor along the south wall has taken longer than anticipated.